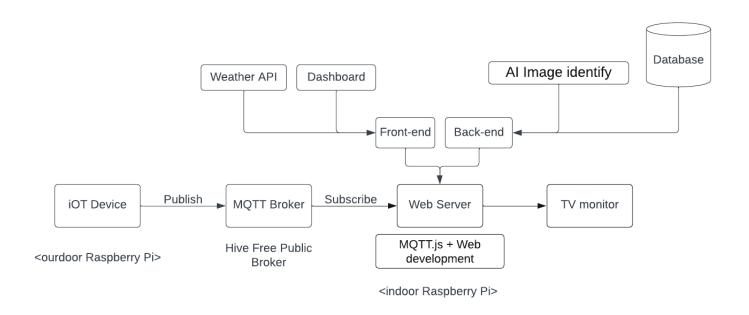
Bird Feeder - Dashboard

Bird Feeder is a small project for our IT project **work term**. It contains iOT device side and Web Server side. On the iOT device side, we use one outside Raspberry Pi to collect different kind of data, like: image of bird, temperature, humidity, light, etc. and send these data to MQTT Broker. We also have another inside Raspberry Pi connected to the TV monitor. We run a Web Server on this Pi and use it to deploy our web application - **Dashboard**.



In this document, we will **only** introduce the Dashboard part of this project.

Keywords

MQTT, Raspberry Pi, Web Server, Web Application, Dashboard, iOT, Python, JavaScript, HTML, CSS, etc.

Project Structure

Usage

Step 1

run the following command to start the Nodejs API Server and save images from MQTT Broker:

```
node run.js
```

Then we can access the API Server through the following URL:

```
http://localhost:3000/api/images
```

Step 2

Our web server use **Flask** as the framework. To run the web server, you need to install Flask first, and then run the following command:

```
python3 runWebServer.py
```

Then we can access the web server through the following URL:

```
http://localhost:80/
```

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